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TITLE: Preparation of avermectins and avermectin monosaccharides, substituted in the 4'- and 4" position, as insecticides and acaricides

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PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

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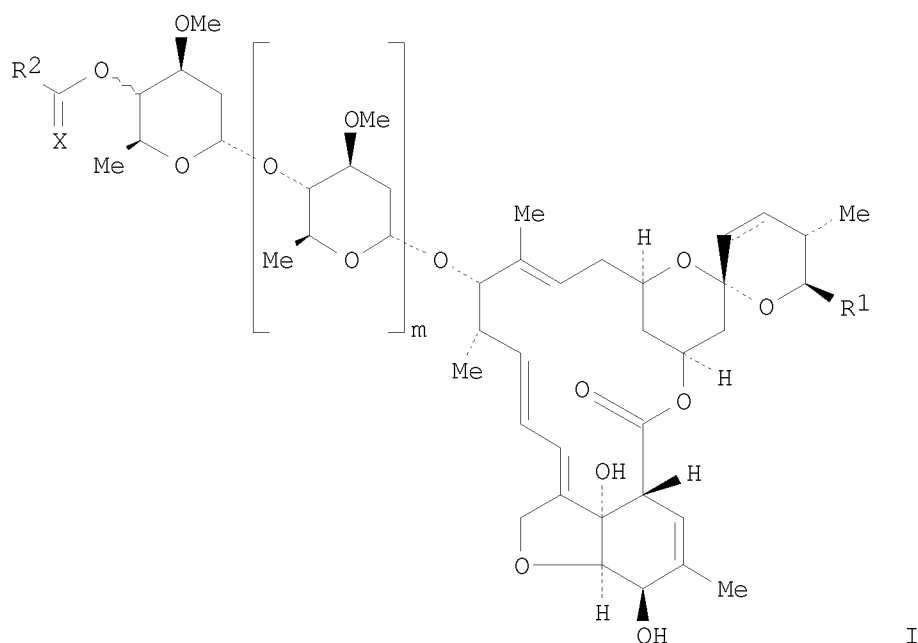
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PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005021569	A1	20050310	WO 2004-EP9594	20040827
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1660510	A1	20060531	EP 2004-764568	20040827
EP 1660510	B1	20080402		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
JP 2007504113	T	20070301	JP 2006-524341	20040827
AT 391133	T	20080415	AT 2004-764568	20040827
ES 2307042	T3	20081116	ES 2004-764568	20040827
US 20080194498	A1	20080814	US 2006-568715	20060217
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			WO 2004-EP9594	W 20040827
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GI				



AB The title compds. I wherein the bond between carbon atoms 22 and 23 is a single or double bond; m is 0 or 1; R<sub>1</sub>, is C<sub>1</sub>-C<sub>12</sub>alkyl, C<sub>3</sub>-C<sub>8</sub>cycloalkyl or C<sub>2</sub>-C<sub>12</sub>alkenyl; and either (A) R<sub>2</sub> is NR<sub>3</sub>R<sub>4</sub>, and (1) X is O, wherein R<sub>3</sub> is, for instance, H, unsubstituted or mono- to pentasubstituted C<sub>1</sub>-C<sub>12</sub> alkyl, and R<sub>4</sub> is, for instance, mono- to pentasubstituted C<sub>1</sub>-C<sub>12</sub> alkyl, unsubstituted or mono- to pentasubstituted C<sub>3</sub>-C<sub>12</sub> cycloalkyl; or (2) X is S, wherein R<sub>3</sub> is, for instance, H, unsubstituted or mono- to pentasubstituted C<sub>1</sub>-C<sub>12</sub> alkyl, and R<sub>4</sub> is, for instance, H, unsubstituted or mono- to pentasubstituted C<sub>1</sub>-C<sub>12</sub> alkyl; or (3) X is O or S, wherein R<sub>3</sub> and R<sub>4</sub> together are, for instance, a three- to seven membered alkylene or a four- to seven-membered alkenylene bridge; or (B) R<sub>2</sub> is OR<sub>5</sub>, X is O or S, wherein R<sub>5</sub> is, for instance, C<sub>1</sub>-C<sub>12</sub> alkyl, mono- to pentasubstituted C<sub>1</sub>-C<sub>12</sub> alkyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in free form or in salt form, are prepared as insecticides and acaricides.

IT 1062324-28-0 1062324-29-1 1062324-30-4  
 1062324-41-7 1062324-42-8 1062324-48-4  
 1062324-49-5 1062324-56-4 1062488-97-4  
 1062489-00-2 1062489-01-3 1062489-24-0  
 1062489-25-1 1062489-34-2 1062489-35-3  
 1062489-36-4 1062489-39-7 1062489-41-1  
 1062489-45-5 1062489-48-8 1062489-49-9  
 1062489-50-2 1062489-69-3 1062505-18-3  
 1062505-49-0 1071165-22-4 1071165-57-5  
 1071166-40-9 1071166-81-8 1071167-24-2  
 1071168-14-3 1071168-15-4 1071168-44-9  
 1071168-64-3 1071168-84-7 1071169-16-8

RL: PRPH (Prophetic)

(Preparation of avermectins and avermectin monosaccharides, substituted in the 4'- and 4" position, as insecticides and acaricides)